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Title: **JP56162473A2: PREPARATION OF ORGANIC ELECTROLYTE BATTERY**

Derwent Title: Organic electrolyte cell mfr. - where lithium anode is heat treated under reduced pressure to eliminate surface oils [Derwent Record]

Country: **JP** Japan
Kind: **A**

Inventor: **TAKEMORI MASAMI**;
YOKOYAMA KENICHI;

Assignee: **HITACHI MAXELL LTD**
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Application Number: **JP1980000066719**

IPC Code: **H01M 4/08;**

Priority Number: 1980-05-20 **JP1980000066719**

Abstract: PURPOSE: To increase the operational voltage under low temperature and heavy load discharging by removing oils on the lithium surface through heat-treatment of lithuum in a vacuum when a battery is produced using lithium as an active material for a cathode.

CONSTITUTION: A lithium plate stored in kerosene is taken out from the kerosene, rolled to a foil using liquid paraffin as a lubricant, placed in a vacuum dryer, evacuated to 100mmHg or less absolute pressure, heated at a temperature of 180°C, that is the melting point of lithium, or lower, and thus oils on the lithium surface is removed. Then, it is combined in a battery to form the battery. Because the reduction of the operational voltage under low temperature and heavy load discharging due to the oils on the lithium surface can be prevented, and the battery performance can be greatly improved.

Family: None

Forward References: **Go to Result Set:** Forward references (1)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes

Other Abstract Info: CHEMABS 096(14)112276H

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(71) Applicant: **HITACHI MAXELL LTD**

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(54) PREPARATION OF ORGANIC ELECTROLYTE BATTERY

(57) Abstract:

PURPOSE: To increase the operational voltage under low temperature and heavy load discharging by removing oils on the lithium surface through heat-treatment of lithuum in a vacuum when a battery is produced using lithium as an active material for a cathode.

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